



Table 1
Construction Cost Estimates Summary

Major Basin	Basin 12	Basin 12	Basin 12
Alternative	Conveyance	Detention	Local
Item	Total Cost (\$)	Total Cost (\$)	Total Cost (\$)
Channels	1,766,566	0	-
Culverts	-	-	327,218
Drop Structures	288,000	0	-
Detention Facilities	-	-	-
Bridges	-	-	1,485,000
Leeves	-	-	-
Sub-Total (Rounded)	\$2,055,000	\$0	\$1,812,000
30% Construction Contingency	\$616,500	\$0	\$543,600
15% Engineering Contingency	\$308,250	\$0	\$271,800
Total (Rounded)	\$2,980,000	\$0	\$2,627,000



Table 7-1-CH
Channel Cost Estimates
Major Basin 12 Alternative - Conveyance

Channel and Reach	Existing 100-yr Flow (cfs)	Proposed 100-yr Flow (cfs)	Design Flow (cfs)	Channel Length	Channel Type	Material	Excavation (CY)	Unit Cost (\$)	Total Cost (\$)
Donkey Creek (DP12-203 to DP 12-202)	4,291	4,579	5,000	2,400	Steep Channel Design	Grass	73,733	210	504,733
Donkey Creek (DP12-202 to Hwy 50)	4,363	4,615	5,000	6,000	Steep Channel Design	Grass	184,333	210	1,261,833

Sub-Total **\$1,766,566**

Table 7-2-CH
Channel Cost Estimates
Major Basin 12 Alternative - Detention

Channel and Reach	Existing 100-yr Flow (cfs)	Proposed 100-yr Flow (cfs)	Design Flow (cfs)	Channel Length	Channel Type	Material	Excavation (CY)	Unit Cost (\$)	Total Cost (\$)

Sub-Total **\$0**



**Table 7-1-CU
Culvert Cost Estimate
Major Basin 12 Alternative - Conveyance**

Design Point	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
NA	NA	NA	NA	-		0	0	650	40,000	40,000

¹ Length is based on Future Land Use Road widths

Sub-Total \$40,000

**Table 7-2-CU
Culvert Cost Estimate
Major Basin 12 Alternative - Detention**

Facility Number	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)

¹ Length is based on Future Land Use Road widths

Sub-Total \$0

**Table 7-2-CU
Culvert Cost Estimate
Major Basin 12 Alternative - Local**

Facility Number	Road Crossing	Channel and Reach	Existing Size	Future 100-yr Flow (cfs)	Necessary Facility for Future 100-year Flow	Number of Culverts	Culvert Length (ft) ¹	Unit Cost (\$)	End Section Unit Cost (\$)	Total Cost (\$)
12-210	Spring Hill Rd.	Upper Donkey Creek Tributary 1203	CMP 24", 18" HDPE	366	Add 36" culvert	1	87	102	204	9,078
12-220	Spring Hill Rd.	Upper Donkey Creek Tributary 1202	No culvert	349	RCP 2-36"	2	100	102	204	20,604
12-240	Spring Hill Rd.	Upper Donkey Creek Tributary 1240	*CMP 48"	906	Add 3-48" RCP	3	68	142	284	29,252
12-250	Force Rd.	Upper Donkey Creek Tributary 1250	CMP 24"	403	CBC 5-4'x2'	5	100	350	700	175,700
12-230	Force Rd.	Upper Donkey Creek Tributary 1201	24" RCP	140	48" RCP	1	650	142	284	92,584

¹ Length is based on Future Land Use Road widths

Sub-Total \$327,218



Table 7-2-D
Detention Facility Construction Cost Estimates
Major Basin 12 Alternative Detention

Detention Name	Storage Volume (ac-ft)	Excavation (CY)	Excavation Cost (\$)	Embankment (CY)	Embankment Cost (\$)	Reveg. Area (SF)	Topsoil (CY)	Topsoil Cost at 4" Thick (\$)	Seeding Cost (\$)	Low Level Outlet Intake Structure/ EA (\$)	Low Level Outlet Conveyance Structure Type	Length of Low Level Outlet Conveyance Structure (ft)	Cost Low Level Outlet Conveyance Structure (\$)	Low Level Outlet Conveyance End Treatment Type	Low Level Outlet Conveyance End Treatment Cost (\$)	Spillway Flow Rate (cfs)	Spillway Cost (\$)	Total Cost (\$)
Unit costs		<10,000CY : >10,000CY :	8.00 5.00		22.00			20.00 2400		5800								
Sub-Total																		\$0

Table X
Drop Structure Cost Estimate
Major Basin 12 Alternative - Conveyance

Channel	Existing 100-yr Flow (cfs)	Proposed 100-yr Flow (cfs)	Design Flow (cfs)	Channel Length (ft)	Existing Slope	Proposed Slope	Elevation Change (ft)	No. of Drops	Unit Cost (\$)	Total Cost (\$)
Donkey Creek (DP12-203 to DP 12-202)	4,291	4,579	5,000	2,400	0.20%	0.12%	1.92	1	72,000	72,000
Donkey Creek (DP12-202 to Hwy 50)	4,363	4,615	5,000	6,000	0.30%	0.10%	12	3	72,000	216,000

Sub-Total \$288,000



Table 7-1-CU
Bridge Cost Estimate
Basin 12 Alternative - Conveyance

Design Point	Road Crossing	Channel and Reach	Future 100-yr Flow (cfs)	Road Class	Bridge Length (ft) ¹	Constructi on Area (ft ²)	Unit Cost (\$)	Total Cost (\$)

¹ Length is based on Future Land Use Road widths

\$0

Table 7-2-CU
Bridge Cost Estimate
Basin 12 Alternative - Detention

Design Point	Road Crossing	Channel and Reach	Future 100-yr Flow (cfs)	Road Class	Bridge Length (ft) ¹	Constructi on Area (ft ²)	Unit Cost (\$)	Total Cost (\$)

¹ Length is based on Future Land Use Road widths

\$0

Table 7-1-CU
Bridge Cost Estimate
Basin 12 Alternative - Local

Design Point	Road Crossing	Channel and Reach	Future 100-yr Flow (cfs)	Road Class	Bridge Length (ft) ¹	Constructi on Area (ft ²)	Unit Cost (\$)	Total Cost (\$)
12-212	Lazy D Ave.	Upper Donkey Creek	4496	Local	150	9900	150	1,485,000

¹ Length is based on Future Land Use Road widths

\$1,485,000